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*VIRGINIA BAR ONLY

SEP 3 3 13 PM '91

RECEIVED

AUG 30 1991

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

August 30, 1991

Ms. Donna Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W., Room 222
Washington, D.C. 20554

Dear Ms. Searcy:

On behalf of Allegheny Communications Group, Inc., there is submitted herewith in triplicate a financial and engineering amendment to its pending application for construction permit for a new FM broadcast station at Pittsburgh, PA (File No. BPH-910628MC).

The amendment is filed within thirty days of the August 2, 1991 Public Notice (Report No. 15052) accepting the application for tender and is thus filed as a matter of right.

Should there be any questions, kindly communicate directly with this office.

Very truly yours,

Morton L. Berfield

Enclosure

AMENDMENT SEP 3 3 13 PM '91

AUG [illegible] NICES

The application of Allegheny Communications Group, Inc. for construction permit for a new FM broadcast station at Pittsburgh, PA (File No. BPH-910628MC) is hereby amended as follows:

1. The total cost of construction and first three months operating expense is increased to $1,105,257.

2. The applicant proposes to fund such costs with a loan of $1,200,000 from Provident National Bank, Broad and Chestnut Streets, P.O. Box 7648, Philadelphia, PA 19101, Contact: Philip C. Jackson, Telephone No. (215) 585-5932.

ENGINEERING STATEMENT COVERING

AMENDMENT TO APPLICATION FOR CONSTRUCTION PERMIT

FOR ALLEGHENY COMMUNICATIONS GROUP, INC.

CHANNEL 229B 93.7 mHz

43.5 kW MAX.(DA) @ 157.5 METERS HAAT

PITTSBURGH, PENNSYLVANIA

FILE NO. BPH-910628MC

AMENDED AUGUST 1991

ENGINEERING STATEMENT COVERING
AMENDMENT TO APPLICATION FOR CONSTRUCTION PERMIT
FOR ALLEGHENY COMMUNICATIONS GROUP, INC.
CHANNEL 229B 93.7 mHz
43.5 kW MAX.(DA) @ 157.5 METERS HAAT
PITTSBURGH, PENNSYLVANIA
FILE NO. BPH-910628MC

AMENDED AUGUST 1991

TABLE OF CONTENTS

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____

Name of Applicant

ALLEGHENY COMMUNICATIONS GROUP, INC.

Call letters *(if issued)*	Is this application being filed in response to a window? ☐ Yes ☒ No If Yes, specify closing date: _____

Purpose of Application: *(check appropriate box(es))*

- ☒ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Frequency
- ☐ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☒ Other *(Summarize briefly)* Amendment to pending application for Construction Permit specifying modified directional antenna pattern.

File Number(s) BPH-910628MC

1. Allocation:

Channel No.	Principal community to be served:		
	City	County	State
229	PITTSBURGH	ALLEGHENY	PA

Class *(check only one box below)*

☐ A ☐ B1 ☒ B ☐ C3

☐ C2 ☐ C1 ☐ C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark. Approximately 0.7 kM East of the intersection of Ivory Avenue and East Street near Pittsburgh, Pennsylvania.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	°	'	"	Longitude	°	'	"
	40	29	49		80	00	17

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ☐ Yes ☒ No

If Yes, give call letter(s) or file number(s) or both. Not Applicable

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ☒ No
If Yes, list old coordinates.

Latitude ° ' "	Longitude ° ' "

5. Has the FAA been notified of the proposed construction? ☐ Yes ☒ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No. N/A

Date _____ Office where filed _____

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	None		
(b)			

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level: 400.8 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances and lighting if any): 73.5 meters

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed? [X] Yes [ ] No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field. Exhibit No. see eng.

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)? [X] Yes [ ] No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service. Exhibit No. N/A

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal? [X] Yes [ ] No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No. N/A

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207? [ ] Yes [X] No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply? [X] Yes [ ] No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers. Exhibit No. see eng. & materials on file

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose. Exhibit No. N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following: Exhibit No. see eng.

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? [X] Yes [ ] No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)* Exhibit No. on file

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No. on file

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

1:500,000 sectional aeronautical chart

Exhibit No. see eng.

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 3.16 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 6,887.4 sq. km. Population 2,291,396

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No. N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

[X] Linearly interpolated 30-second database [ ] 7.5 minute topographic map

(Source: NGDC E D X ENGINEERING)

[ ] Other *(briefly summarize)*

SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
*177	161.8	32.8	52.4
0	114.6	28.0	45.9
45	130.5	19.6	33.4
90	177.8	20.6	35.1
135	188.9	32.3	51.9
180	159.1	32.5	52.1
225	180.5	34.6	54.4
270	185.7	33.6	53.3
315	123.0	28.8	47.1

*Radial through principal community, if not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? ☐ Yes ☒ No

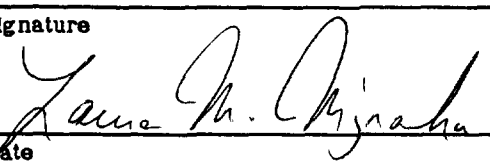
If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311. Exhibit No. N/A

If No, explain briefly why not.

See Engineering

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name *(Typed or Printed)*	Relationship to Applicant *(e.g., Consulting Engineer)*
LAURA M. MIZRAHI	TECHNICAL CONSULTANT
Signature 	Address *(Include ZIP Code)* COMMUNICATIONS TECHNOLOGIES, INC. P.O. BOX # 1130 MARLTON, NEW JERSEY 08053
Date August 28, 1991	Telephone No. *(Include Area Code)* (609) 985-0077

ENGINEERING STATEMENT COVERING
AMENDMENT TO APPLICATION FOR CONSTRUCTION PERMIT
FOR ALLEGHENY COMMUNICATIONS GROUP, INC.
CHANNEL 229B 93.7 mHz
43.5 kW MAX.(DA) @ 157.5 METERS HAAT
PITTSBURGH, PENNSYLVANIA
FILE NO. BPH-910628MC

AMENDED AUGUST 1991

SUMMARY

This statement supports an amendment of the pending application of **Allegheny Communications Group, Inc. ("Allegheny")** for a construction permit for a new FM broadcast station on Channel 229B at Pittsburgh, Pennsylvania (File No. BPH-910628MC). The purpose of this amendment is to eliminate any potential conflict between the **Allegheny** application and the proposal pending in MM Docket No. 87-433 to allocate Channel 228A to Barnesboro, Pennsylvania.

The distance between **Allegheny's** proposed transmitter site and the reference coordinates proposed for Channel 228A at Barnesboro is 102.3 kM. Since the petition for rulemaking in MM

The applications were designated for hearing with a condition making the result contingent upon the outcome of the rulemaking proceeding.

On July 12, 1991, a Report and Order was released in MM Docket No. 88-496 that moved WQYX(FM) (licensed to Clearfield, Pennsylvania) from Channel 230B1 to Channel 226B1. That move allowed **Allegheny** to propose reference coordinates for Channel 228A at Barnesboro that would eliminate any potential conflict with its application. On August 1, 1991, **Allegheny** filed a motion in MM Docket No. 87-433 asking that the reference coordinates proposed for Channel 228A at Barnesboro be changed to coordinates that would eliminate any conflict with **Allegheny's** application. That motion is pending.

Allegheny has decided to eliminate any conflict between its application and the proposed Barnesboro channel change by amending its application herein. **Allegheny** is taking this action out of an abundance of caution because (1) a petition for reconsideration has been filed in MM Docket No. 88-496 that could affect its pending motion and (2) **Allegheny** wishes to simplify the processing of its application by eliminating any conflict between its application and the pending rulemaking proceedings. The amendment modifies **Allegheny's** directional antenna pattern and requests processing pursuant to Section 73.215 of the Commission's rules with respect to the proposed allocation of Channel 228A at Barnesboro, Pennsylvania. The amendment is considered "minor" in nature, as the proposed maximum ERP remains the same and the resulting percent of change in coverage area is less than 50% (actual loss area 12.6%). Any portion of **Allegheny's** engineering not modified in this amendment remains as proposed in its original application.

TRANSMITTER SITE

The proposed **Allegheny** transmitter site continues to be located approximately 0.7 kM East of the intersection of Ivory Avenue and East Street near Pittsburgh, Pennsylvania. The coordinates and elevation of the site are:

NORTH LATITUDE:	40° 29' 49"
WEST LONGITUDE:	80° 00' 17"
ELEVATION:	400.8 meters AMSL
	(See *Figure 1*)

In accordance with *FCC Rules and Regulations*, an allocation study has been conducted for the proposed site location and is submitted herein as *Table III*. WBZZ-FM, the facility on whose license renewal this application was filed, was licensed and operating prior to November 16, 1964. As such, grandfathered short spacing exists between WBZZ-FM and WQIO-FM, Channel 229B, Mt. Vernon, Ohio. *Section 73.213* of the Commission's Rules has been employed in addressing this existing short spacing. The amended directional pattern specified herein does not increase the ERP on any bearing towards WQIO in excess of that previously proposed. The original directional pattern complied fully with *Section 73.213(a)* with respect to grandfathered short spacing in that the proposed 1 mV/m contour was depicted not to exceed the licensed WBZZ 1 mV/m contour on any bearing toward WQIO. Therefore, a new showing regarding this compliance has not been included in this amendment.

Processing of a short spacing of 1.8 kM to a pending application on file for WQYX, Channel 230B1, Clearfield, Pennsylvania has previously been requested under the provisions of *Section 73.215* of the Rules. Applicant additionally requests that the short spacing described above to the proposed allotment of Channel 228A, Barnesboro, Pennsylvania, be processed under the provisions of *Section 73.215*. *Figures 2 & 3* depict the lack of prohibited overlap between the proposed **Allegheny**, WQYX and Barnesboro facilities.

TOPOGRAPHY

The average elevation of the terrain between 3 and 16 kilometers from the antenna site has been determined utilizing the latest version of the National Geophysical Data Center's thirty second point topography data base *(NGDC 30)*. A Linear interpolation method is used to obtain intermediate points along each radial. The method used conforms to the linear interpolation method specified by the *FCC in Public Notice # 3736, FCC 84-341*, dated July 13, 1984.

The average elevation of 360 radials, at 1° increments, has been computed in order to most accurately plot the coverage and interference contours of the proposed and involved facilities. For the sake of brevity, a tabulation has been included in this statement at 10° intervals except over the null areas of the directionalized pattern, where appropriate bearings have been utilized. Data applicable to the eight cardinal radials is tabulated on *Section V-B of Form 301, Page 5.* *Tables I & II* include additional data as described above.

COVERAGE AREAS

Figure 1 is a sectional aeronautical chart on which has been drawn the proposed 70 dBu and 60 dBu contours from the proposed site location. Population and square kilometer area for the site are also shown on *Figure 1.* A 7 1/2 minute topographical map and census map were used to define the corporate boundaries of Pittsburgh.

A polar planimeter was used to measure the total land area within the proposed 60 dBu contour. The population within this area was calculated utilizing a computer program of known accuracy and repeatability. Population data is based on corrected 1980 United States Census figures for the states of Pennsylvania, New York, Ohio and West Virginia. These contours have been delineated on the basis of directional radiation, topography data as listed herein, and *Figure 1 of FCC Section 73.333.* The proposed service area is equal to 87.4% of the square kilometer area located inside the originally proposed 60 dBu service contour.

ANSI COMPLIANCE

RF radiation from the proposed facility has been reviewed in accordance with the "**Radio Frequency Protection Guides**", adopted by the *American National Standards Institute, (ANSI C95.1-1982).* RF radiation from the proposed facility will not have a significant environmental impact. Utilizing the equation on *Page 9 of the OST Bulletin,* the "worst case" power density at ground level has been calculated to be 0.7811 mw/cm^2, or 78.1% of the allowable *ANSI standard* of 1.0 mw/cm^2 for FM stations. Therefore, it is believed the proposed facility should be

categorically excluded from environmental processing with respect to *Section 1.1307(b).* Aditionally, as further specified in OST Bulletin 65 with respect to potential occupational hazards, the applicant will establish a policies and procedures plan at the site concerning worker exposure. When work on the tower is required, RF radiation compliance and coordination will be adhered to as described in the policy. Additional protective measures to be taken will include the posting of warning signs at the tower base, carefully monitored worker maintenance logs and limited time access on the tower. Further, Allegheny will reduce or eliminate its transmitter power during such time as workers are on the tower, if necessary.

FCC FORM 301

Technical questions pertaining to this statement and to *FCC Form 301, Section V-B*, have been answered in detail and are attached.

CONCLUSION

It is believed that the FM operation, proposed herein, conforms with the intent and requirements of the Commission's Rules and Technical Standards.

The foregoing was prepared on behalf of **Allegheny Communications Group, Inc.** by, Laura M. Mizrahi of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of her own knowledge, except such statements made on information and belief, and as to these statements she believes them to be true and correct.

By _____

Laura M. Mizrahi
for Communications Technologies, Inc.
Marlton, New Jersey

KATHLEEN A. STEVENS
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES MARCH 26, 1993

SUBSCRIBED AND SWORN TO before me

this 28th day of August, 1991,

_____, NOTARY PUBLIC

TABLE I

TABULATION OF DIRECTIONAL ANTENNA DATA
E R J DA-1005-3

TABLE II

TABULATION OF TERRAIN AND COVERAGE DATA
FOR PROPOSED ALLEGHENY COMMUNICATIONS GROUP, INC. FACILITY
93.7 mHz CHANNEL 229B 43.5 kW MAX.(DA) @ 157.5 METERS HAAT
PITTSBURGH, PENNSYLVANIA
FILE NO. BPH-910628MC
AMENDED AUGUST 1991

DISTANCES TO CONTOURS (Kilometers):

Frequency: 93.7000 MHz
Coordinates: N 40 29 49 W 80 0 17
F(50,50) Curves Number of Contours: 3

AZ (degs)	HAAT (m)	*ERP (kW)	CONTOUR LEVELS (dBu): 70.0	60.0	54.0
.0	115	43.5000	28.0	45.9	58.4
10.0	131	36.3487	28.4	46.7	59.2
20.0	135	22.9345	26.0	43.3	55.6
30.0	134	14.4707	23.4	39.3	51.3
40.0	131	9.1304	20.8	35.2	46.7
45.0	131	7.2525	19.6	33.4	44.6
50.0	146	5.7609	19.6	33.3	44.7
55.0	147	4.5760	18.5	31.6	42.9
60.0	152	3.6349	17.8	30.4	41.6
65.0	154	3.1658	17.2	29.6	40.6
70.0	163	3.1658	17.8	30.4	41.6
75.0	168	3.1658	18.1	30.9	42.2
80.0	169	3.8062	19.0	32.4	43.9
85.0	172	4.7917	20.3	34.6	46.3
90.0	178	4.7917	20.6	35.1	46.8
95.0	194	4.7917	21.4	36.5	48.2
100.0	180	6.0324	21.9	37.2	49.0
110.0	152	9.5607	22.5	38.1	50.0
120.0	165	15.1527	25.9	43.5	55.7
130.0	179	24.0154	29.8	49.0	61.4
135.0	189	30.2336	32.3	51.9	64.5
140.0	178	38.0618	33.2	52.9	65.6
150.0	173	43.5000	33.9	53.7	66.5
160.0	173	43.5000	33.9	53.7	66.5
170.0	155	43.5000	32.0	51.6	64.3
177.0	162	43.5000	32.8	52.4	65.2
180.0	159	43.5000	32.5	52.1	64.8
190.0	142	43.5000	30.7	49.9	62.6
200.0	148	43.5000	31.3	50.7	63.4
210.0	182	43.5000	34.7	54.6	67.4
220.0	187	43.5000	35.1	54.9	67.8
225.0	181	43.5000	34.6	54.4	67.2

TABLE II

AZ (degs)	HAAT (m)	*ERP (kW)	CONTOUR LEVELS (dBu): 70.0	60.0	54.0
230.0	184	43.5000	34.9	54.7	67.6
240.0	167	43.5000	33.3	53.0	65.8
250.0	159	43.5000	32.5	52.1	64.9
260.0	160	43.5000	32.6	52.2	65.0
264.0	168	41.8301	33.0	52.7	65.5
266.0	173	39.9475	33.2	52.9	65.6
268.0	180	38.1495	33.5	53.2	65.9
270.0	186	36.4325	33.6	53.3	66.0
272.0	193	34.8112	33.8	53.5	66.3
274.0	200	33.2269	34.1	53.7	66.5
276.0	205	31.7314	34.0	53.6	66.5
278.0	206	30.3033	33.8	53.4	66.2
280.0	206	28.9394	33.4	52.9	65.7
282.0	201	30.3033	33.4	52.9	65.7
284.0	191	31.7314	32.9	52.5	65.2
286.0	175	33.2269	31.9	51.5	64.1
288.0	160	34.7928	30.8	50.2	62.7
290.0	149	36.4325	30.1	49.3	61.9
292.0	143	38.1495	29.9	48.8	61.5
294.0	139	39.9475	29.7	48.6	61.2
296.0	136	41.8301	29.8	48.6	61.2
300.0	133	43.5000	29.8	48.6	61.2
310.0	134	43.5000	29.9	48.8	61.4
315.0	123	43.5000	28.8	47.1	59.7
320.0	118	43.5000	28.4	46.5	59.0
330.0	112	43.5000	27.7	45.5	58.0
340.0	108	43.5000	27.3	44.9	57.2
350.0	111	43.5000	27.6	45.4	57.8

60 dBu COVERAGE CONTOUR - AREA: 6,887.4 SQUARE KILOMETERS
POPULATION: 2,291,396 PERSONS

Distance to contours established by means of a computer program which utilizes the FM field strength data found in Figure 1 of FCC Section 73.333.

* ERP data from Table I.

Note: 70 dBu, 60 dBu and 54 dBu contours based on F(50:50) curves.

TABLE II

TABULATION OF TERRAIN AND INTERFERENCE DATA
FOR PROPOSED ALLEGHENY COMMUNICATIONS GROUP, INC. FACILITY
93.7 mHz CHANNEL 229B 43.5 kW MAX.(DA) @ 157.5 METERS HAAT
PITTSBURGH, PENNSYLVANIA
FILE NO. BPH-910628MC
AMENDED AUGUST 1991

DISTANCES TO CONTOURS (Kilometers):

Frequency: 93.7000 MHz
Coordinates: N 40 29 49 W 80 0 17
F(50,10) Curves Number of Contours: 2

AZ (degs)	HAAT (m)	*ERP (kW)	CONTOUR LEVELS (dBu): 54.0	51.0
.0	115	43.5000	70.4	80.6
10.0	131	36.3487	70.6	80.5
20.0	135	22.9345	65.1	74.6
30.0	134	14.4707	59.1	68.0
40.0	131	9.1304	53.4	61.4
45.0	131	7.2525	50.7	58.6
50.0	146	5.7609	50.3	58.2
55.0	147	4.5760	47.9	55.7
60.0	152	3.6349	46.0	53.7
65.0	154	3.1658	44.8	52.4
70.0	163	3.1658	45.8	53.5
75.0	168	3.1658	46.5	54.2
80.0	169	3.8062	48.6	56.4
85.0	172	4.7917	51.7	59.6
90.0	178	4.7917	52.3	60.3
95.0	194	4.7917	54.2	62.2
100.0	180	6.0324	55.2	63.4
110.0	152	9.5607	56.9	65.3
120.0	165	15.1527	64.3	73.4
130.0	179	24.0154	72.3	81.6
135.0	189	30.2336	76.6	86.0
140.0	178	38.0618	78.2	87.8
150.0	173	43.5000	79.5	89.2
160.0	173	43.5000	79.4	89.1
170.0	155	43.5000	76.9	86.7
177.0	162	43.5000	77.9	87.6
180.0	159	43.5000	77.5	87.3
190.0	142	43.5000	75.0	84.9
200.0	148	43.5000	75.9	85.7
210.0	182	43.5000	80.6	90.3
220.0	187	43.5000	81.2	90.9

TABLE II

AZ (degs)	HAAT (m)	*ERP (kW)	CONTOUR LEVELS (dBu): 54.0	51.0
225.0	181	43.5000	80.4	90.1
230.0	184	43.5000	80.8	90.5
240.0	167	43.5000	78.6	88.3
250.0	159	43.5000	77.5	87.3
260.0	160	43.5000	77.6	87.4
264.0	168	41.8301	78.1	87.8
266.0	173	39.9475	78.2	87.9
268.0	180	38.1495	78.6	88.1
270.0	186	36.4325	78.7	88.2
272.0	193	34.8112	79.0	88.5
274.0	200	33.2269	79.3	88.7
276.0	205	31.7314	79.2	88.6
278.0	206	30.3033	78.8	88.2
280.0	206	28.9394	78.1	87.5
282.0	201	30.3033	78.1	87.5
284.0	191	31.7314	77.5	86.9
286.0	175	33.2269	76.1	85.5
288.0	160	34.7928	74.5	84.1
290.0	149	36.4325	73.6	83.3
292.0	143	38.1495	73.3	83.1
294.0	139	39.9475	73.2	83.1
296.0	136	41.8301	73.3	83.3
300.0	133	43.5000	73.5	83.5
310.0	134	43.5000	73.7	83.7
315.0	123	43.5000	71.8	81.9
320.0	118	43.5000	71.1	81.2
330.0	112	43.5000	69.9	80.2
340.0	108	43.5000	69.2	79.4
350.0	111	43.5000	69.8	80.0

* ERP data from Table I.

Note: 54 dBu & 51 dBu (interfering contours) based on F(50:10) curves.

TABLE III

73.213 ALLOCATION STUDY
PROPOSED CHANNEL 229B - PITTSBURGH, PENNSYLVANIA
FILE NO. BPH-910628MC
AMENDED AUGUST 1991

Search of channel 229B (93.7 MHz), at N. 40 29 49, W. 80 0 17.

CALL	CITY	ST	CHN	CL	S	DIST	REQ. SEPN	BRNG	CLEARANCE	
WVCW	Barrackville	WV	226	A	C	109.4	69.0	188.8°	40.4	
WQYX	Clearfield	PA	226	B1	A	150.8	71.0	69.4°	79.8	
ALC	Duncansville	PA	226	A	A	126.2	69.0	91.5°	57.2	
ALC	Barrackville	WV	226	A	U	111.1	69.0	187.2°	42.1	
ALC	Youngstown	OH	227	B	U	84.5	74.0	320.0°	10.5	
WBBG	Youngstown	OH	227	B	L	84.5	74.0	320.0°	10.5	
WQZS	Meyersdale	PA	227	A	A	105.4	69.0	137.5°	36.4	
ALC	Meyersdale	PA	227	A	U	112.8	69.0	132.4°	43.8	
NEW	Meyersdale	PA	227	A	A	112.5	69.0	132.0°	43.5	
WQZS	Meyersdale	PA	227	A	C	114.7	69.0	133.7°	45.7	
WRHB	Barnesboro	PA	228	A	A	102.3	105.0	79.4°	-2.7	*
ALC	Buckhannon	WV	228	B1	V	177.8	145.0	183.7°	32.8	
ALC	Berkeley Springs	WV	228	A	U	181.1	105.0	122.6°	76.1	
WBTQ	Buckhannon	WV	228	A	L	174.2	105.0	185.2°	69.2	
WBNV	Barnesville	OH	228	A	C	122.0	105.0	237.3°	17.0	
ALC	Barnesville	OH	228	A	U	114.8	105.0	240.4°	9.8	
WQYX	Clearfield	PA	228	A	L	144.7	105.0	65.3°	39.7	
WCSTFM	Berkeley Springs	WV	228	A	L	181.1	105.0	122.6°	76.1	
WVCV	Boalsburg	PA	229	A	A	192.5	163.0	81.5°	29.5	
WRVCFM	Ashland	KY	229	C1	L	327.4	270.0	224.3°	57.4	
WBLK	Depew	NY	229	B	L	281.5	241.0	19.5°	40.5	
ALC	Ashland	KY	229	C1	U	327.4	270.0	224.3°	57.4	
ALC	Depew	NY	229	B	U	281.5	241.0	19.5°	40.5	
ALC	Mount Vernon	OH	229	B	U	206.7	241.0	267.2°	-34.3	
ALC	Pittsburgh	PA	229	B	U	6.4	241.0	195.9°	-234.6	
WQIO	Mount Vernon	OH	229	B	L	206.7	241.0	267.2°	-34.3	**
WBZZ	Pittsburgh	PA	229	B	L	6.4	241.0	195.9°	-234.6	
WBLK	Depew	NY	229	B	A	281.5	241.0	19.5°	40.5	
ALC	Woodstock	VA	229	B1	U	221.9	211.0	146.0°	10.9	
NEW	Pittsburgh	PA	229	B	A	0.0	241.0	0.0°	-241.0	
NEW	Pittsburgh	PA	229	B	A	9.5	241.0	197.7°	-231.5	
WAZR	Woodstock	VA	229	B1	C	221.9	211.0	146.0°	10.9	
ALC	Boalsburg	PA	229	A	A	189.8	163.0	80.6°	26.8	
WQYX	Clearfield	PA	230	B1	D	147.3	145.0	68.0°	2.3	
WKBIFM	St. Marys	PA	230	B1	A	158.4	145.0	49.9°	13.4	
ALC	Clearfield	PA	230	B1	V	143.9	145.0	67.4°	-1.1	
WQYX	Clearfield	PA	230	B1	A	143.2	145.0	67.8°	-1.8	***

TABLE III

ALC	St. Marys	WV	230	B1	U	160.1	145.0	219.8°	15.1
WRRRFM	St. Marys	WV	230	B1	L	160.3	145.0	219.3°	15.3
WHBCFM	Canton	OH	231	B	L	119.6	74.0	291.9°	45.6
WQZKFM	Keyser	WV	231	B	L	149.6	74.0	143.1°	75.6
ALC	Canton	OH	231	B	U	119.6	74.0	291.9°	45.6
ALC	Keyser	WV	231	B	U	149.6	74.0	143.1°	75.6
ALC	Cresson	PA	232	A	U	125.8	69.0	91.6°	56.8
ALC	Saegertown	PA	232	A	U	135.0	69.0	354.1°	66.0
WRLF	Fairmont	WV	232	A	C	114.4	69.0	185.8°	45.4
WBXQ	Cresson	PA	232	A	L	125.8	69.0	91.6°	56.8
WEOZ	Saegertown	PA	232	A	L	135.0	69.0	354.1°	66.0
ALC	Fairmont	WV	232	A	U	113.4	69.0	187.0°	44.4
WRLF	Fairmont	WV	232	A	C	115.6	69.0	188.5°	46.6
WELA	East Liverpool	OH	282	B	L	52.7	20.0	286.3°	32.7
WELA	East Liverpool	OH	282	B	A	52.7	20.0	286.3°	32.7
ALC	East Liverpool	OH	282	B	U	52.7	20.0	286.3°	32.7

* See Engineering Statement and Figure 3. Processing requested pursuant to Section 73.215.

** Grandfathered short spacing. (See Engineering Statement).

*** Ordered to Channel 226B1 per MM Docket 88-496. Petition for Reconsideration pending in docket. Processing requested pursuant to Section 73.215.

TABLE IV

WQYX CHANNEL 230B1
25 kW @ 100 METERS HAAT
CLEARFIELD, PENNSYLVANIA

DISTANCES TO CONTOURS (Kilometers):

Frequency: 93.9000 MHz

F(50,50) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 57.0
.0	102	13.98	45.2
10.0	129	13.98	49.3
20.0	141	13.98	51.0
30.0	184	13.98	55.9
40.0	202	13.98	57.5
50.0	176	13.98	55.1
60.0	117	13.98	47.5
70.0	82	13.98	41.7
80.0	79	13.98	41.1
90.0	65	13.98	37.8
100.0	37	13.98	29.0
110.0	34	13.98	27.8
120.0	45	13.98	31.8
130.0	58	13.98	35.7
140.0	46	13.98	32.0
150.0	50	13.98	33.4
160.0	77	13.98	40.7
170.0	98	13.98	44.5
180.0	120	13.98	47.9
190.0	110	13.98	46.4
200.0	87	13.98	42.6
210.0	110	13.98	46.4
220.0	122	13.98	48.3
230.0	113	13.98	46.9
240.0	147	13.98	51.7
250.0	150	13.98	52.1
260.0	139	13.98	50.7
270.0	130	13.98	49.5
280.0	100	13.98	44.8
290.0	73	13.98	39.7
300.0	32	13.98	27.1
310.0	43	13.98	30.9
320.0	22	13.98	26.7
330.0	46	13.98	32.0
340.0	60	13.98	36.4
350.0	89	13.98	43.1

TABLE IV

- 2 -

WQYX CHANNEL 230B1
25 kW @ 100 METERS HAAT
CLEARFIELD, PENNSYLVANIA

TABLE IV

- 3 -

PROPOSED CHANNEL 228A
3 kW @ 100 METERS HAAT
BARNESBORO, PENNSYLVANIA

DISTANCES TO CONTOURS (Kilometers):

Frequency: 93.5000 MHz
Coordinates: N 40 40 0 W 78 49 0
F(50,50) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (kW)	CONTOUR LEVELS (dBu): 60.0
.0	148	3.0000	28.7
10.0	173	3.0000	30.9
20.0	148	3.0000	28.7
30.0	135	3.0000	27.6
40.0	130	3.0000	27.1
50.0	135	3.0000	27.5
60.0	91	3.0000	23.1
70.0	80	3.0000	21.8
80.0	60	3.0000	19.0
90.0	52	3.0000	17.6
100.0	61	3.0000	19.1
110.0	47	3.0000	16.7
120.0	60	3.0000	19.0
130.0	52	3.0000	17.6
140.0	63	3.0000	19.4
150.0	25	3.0000	13.3
160.0	8	3.0000	13.3
170.0	37	3.0000	14.6
180.0	63	3.0000	19.4
190.0	80	3.0000	21.8
200.0	83	3.0000	22.1
210.0	70	3.0000	20.4
220.0	53	3.0000	17.8
230.0	52	3.0000	17.5
240.0	94	3.0000	23.5
250.0	115	3.0000	25.8
260.0	132	3.0000	27.3
270.0	170	3.0000	30.7
280.0	162	3.0000	29.9
290.0	154	3.0000	29.2
300.0	131	3.0000	27.2
310.0	123	3.0000	26.6
320.0	125	3.0000	26.7
330.0	115	3.0000	25.8
340.0	129	3.0000	27.0
350.0	138	3.0000	27.8

TABLE IV

- 4 -

PROPOSED CHANNEL 228A
3 kW @ 100 METERS HAAT
BARNESBORO, PENNSYLVANIA

DISTANCES TO CONTOURS (Kilometers):

Frequency: 93.5000 MHz
Coordinates: N 40 40 0 W 78 49 0
F(50,10) Curves Number of Contours: 1

AZ (degs)	HAAT (m)	ERP (kW)	CONTOUR LEVELS (dBu): 48.0
.0	148	3.0000	58.9
10.0	173	3.0000	62.5
20.0	148	3.0000	58.8
30.0	135	3.0000	57.0
40.0	130	3.0000	56.2
50.0	135	3.0000	56.9
60.0	91	3.0000	49.6
70.0	80	3.0000	47.0
80.0	60	3.0000	41.1
90.0	52	3.0000	38.1
100.0	61	3.0000	41.5
110.0	47	3.0000	36.3
120.0	60	3.0000	41.1
130.0	52	3.0000	38.3
140.0	63	3.0000	42.0
150.0	25	3.0000	28.3
160.0	8	3.0000	28.3
170.0	37	3.0000	31.4
180.0	63	3.0000	42.1
190.0	80	3.0000	47.0
200.0	83	3.0000	47.7
210.0	70	3.0000	44.3
220.0	53	3.0000	38.6
230.0	52	3.0000	38.0
240.0	94	3.0000	50.3
250.0	115	3.0000	54.1
260.0	132	3.0000	56.5
270.0	170	3.0000	62.0
280.0	162	3.0000	60.9
290.0	154	3.0000	59.7
300.0	131	3.0000	56.4
310.0	123	3.0000	55.3
320.0	125	3.0000	55.5
330.0	115	3.0000	54.1
340.0	129	3.0000	56.1
350.0	138	3.0000	57.4